

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 11275830  
PUBLICATION DATE : 08-10-99

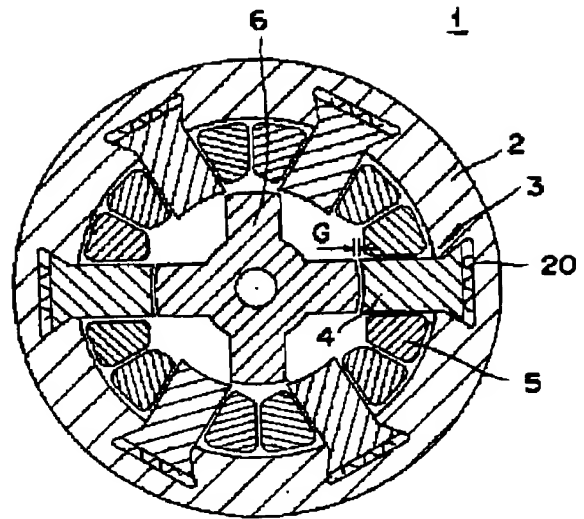
APPLICATION DATE : 24-03-98  
APPLICATION NUMBER : 10076135

APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : OKI TOSHIHARU;

INT.CL. : H02K 19/10 H02K 1/14 H02K 1/18

TITLE : RELUCTANCE MOTOR



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a reluctance motor making it possible to prevent the stator of a motor or the entire motor from vibrating, even if some differences occur in the position of each divided magnetic pole.

**SOLUTION:** This motor 1 is constituted of a stator having salient poles 3 and a rotor 6 provided inside the stator. In this case, insertion grooves for inserting the salient poles 3 are provided at the position of the back yoke 2 of the stator where salient poles 3 are arranged, the salient poles 3 whose distal end is to be inserted into the insertion groove, and a spring member 20 which activates the salient poles 3 inward in the radial direction of the stator with the distal end of the salient poles 3 inserted in the insertion groove, are provided. This structure enables the salient poles 3 to move inside the insertion groove, even when the dislocation of the position of the salient poles 3 and the rotor 6 causes the forces applied between the salient poles 3 and the rotor 6 to differ in each of the salient poles 3. This movement of these salient poles 3 inside the insertion grooves makes it possible to absorb the vibration of the salient poles 3 caused by the dispersion of the forces applied to the salient poles 3.

COPYRIGHT: (C)1999,JPO